Automation, On

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IIT/SAT

What is our project?

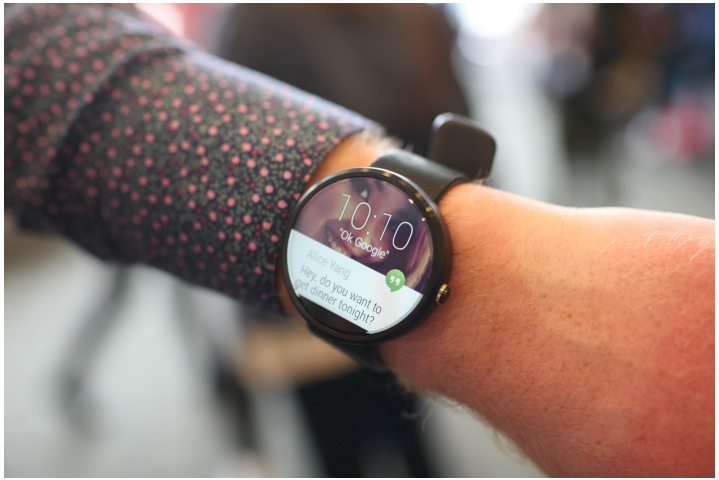
An integration of cutting edge technology:

- Home Automation
- Wearable Device (Android Wear/Moto 360)
- Smartphone App (Android/Moto X)
- Voice Recognition

Android Wear/Moto 360

Features of the smartwatch app:

- Effortless control of home appliances
- Wireless and power efficient
- Uses Google voice recognition for input
- Connects to home automation server via smartphone



Voice Recognition

- While we used voice recognition for our demo, the API can be accessed in many other ways
- Voice input can specify an appliance (lamp, coffee maker, etc.) and a state (on/off)
- Commands could also be issued to the server via a web app, smartphone app, or automatically from another server

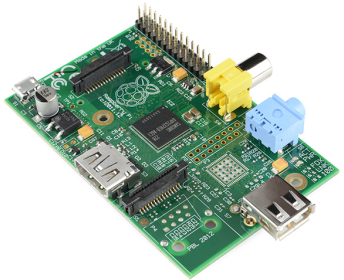
Home Automation Server

- Wireless device talks to Raspberry Pi server via API
- API triggers relay switches to fire
- API can turn relays on or off, or toggle their state
- API allows for programmers to write apps that control power via the internet
- Example: an app that brews coffee for you at 5:50am so that your coffee is ready at 6:00am when you get up

Home Automation Server

- Any device that would connect to a standard wall outlet can be plugged into the power socket
- Power can be wired into the box to control remote devices such as a socket in another room or a device in another room
- Uses widely available, inexpensive components

Home Automation Server



Demo